



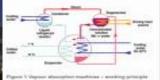


Public Interest Energy Research (PIER)
Environmentally Preferred Advanced Generation (EPAG)

Combined Heat and Power &
Combined Cooling, Heating and Power
RD&D Grant Solicitation
(PON-08-005)

Pre-Proposal Workshop
January 7, 2009
Hearing Room B, CEC











Agenda

Welcome Remarks-Fernando Pina

EPAG Research Overview – Valentino Tiangco

Overview of Grant Solicitation Application Manual – John Mathias

Question and Answer Period

Public Interest Energy Research (PIER)
Environmentally Preferred Advanced Generation (EPAG)





Housekeeping

Public Interest Energy Research (PIER) Environmentally Preferred Advanced Generation (EPAG)





EPAG

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Supervisor: Fernando Pina

Team Lead: Valentino Tiangco, Ph. D.

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Michael Langley

John Mathias





Combined Heat and Power & Combined Cooling, Heating and Power Grant Solicitation

(PON-08-005)

www.energy.ca.gov/contracts/PON-08-005/

Purpose and General Problem Statement





Purpose

 ...to fund research, development, and demonstration (RD&D) projects that will advance the science, technology, and market penetration in California of gridconnected CHP systems which are closely integrated with prime movers (for example: engines, turbines, and fuel cells).

Purpose and General Problem Statement





• to improve the performance and advance the market penetration of CHP and CCHP systems in California with the broad objectives of increasing efficiency; reducing cost; reducing emissions (including greenhouse gases); and improving the load factors and operational flexibility of integrated systems used in residential, commercial, and industrial applications for electricity generation, space conditioning, and process heating and/or cooling.

General Problem Statement

.... to address the slow penetration of new CHP/CCHP installations in California

Eligible Projects





- Reducing costs of CHP/CCHP systems
- Improving efficiency
- Advancing technologies that reduce greenhouse gas emissions and exceed CARB emissions standards
- Matching CHP/CCHP system electric and thermal output to facility needs
- Improving load following capability and operational flexibility.

Eligible Projects (cont'd)





- Improving integration among CHP/CCHP system components.
- Improving the efficiency of thermally activated cooling systems that are part of integrated CCHP systems.
- Adapting CHP/CCHP systems for fuel flexibility
- Advancing district heating and cooling system applications.

Eligible Applicants





- Open solicitation
- New projects or tasks associated with existing projects
- Funds may not be used to augment activities currently funded under existing PIER agreements
- Preference to California business entities

Important Dates





Release of RFP

December 10th

Pre-Proposal Workshop

January 7th

Post Workshop Summary

January 21st

Deadline to Submit Questions:

February 4th

Post Questions and Answers:

February 18th

Proposal Submittal Deadline:

March 19th

Announce Scoring Results

July 2009





Document Availability / Notification

- Energy Commission web site
 - http://www.energy.ca.gov/contracts/index.html
- Listservers
 - http://www.energy.ca.gov/listservers/index.html
 - <u>research</u> (Energy RD&D / PIER program)
 - opportunity (RFPs, contracts, funding announcements)

Funding





• \$3,800,000 total

\$1,500,000 maximum for any one proposal

Match funding is expected (see Scoring Criteria)

Selection and Award Process





- Proposals reviewed by technical experts
- Scoring Committee
- Minimum score of 70% required for funding consideration (based on Scoring Criteria)
- Proposals ranked and recommended for funding based on score

Proposal Requirements





Proposals must contain the following elements:

- Cover page (Use template Attachment D)
- Abstract / Summary (One Page)
- Project Narrative
 - Should comprehensively address Scoring Criteria

Proposal Requirements (cont'd)





- Scope of Work
 - (mandatory template Attachment E)
- Gantt chart
- Biographies
- Schedule of products and due dates (Attachment G)
- Budget (Attachment H)
 - Download Excel files from web site

Proposal Guidelines





- One signed original and eight copies plus a CD
- Maximum of 50 pages total, 12-point font
- Project duration cannot exceed four years
- Match funding is expected
- Purchase of equipment exceeding \$5000 unit cost is discouraged (with PIER funds)
- The budget must not include any profit
- The proposal must NOT include confidential information

Grounds for Rejection





Proposals *WILL* be rejected and not considered for funding if the proposal:

- Is not signed by an authorized representative of the Applicant's organization on the paper original.
- Is not received by the Energy Commission's Grants and Loans Office by the stated due date and time.
- Contains any confidential information.
- Requests PIER funding of more than \$1,500,000.

Proposals *MAY* be rejected and not considered for funding if:

- The proposal does not address each element listed under "Proposal Requirements."
- The proposal does not adhere to the guidelines listed under "Proposal Guidelines."

Amendments





- Any amendments or revisions will be posted on the Energy Commission web site, and an announcement will be distributed via the email Listservers
 - http://www.energy.ca.gov/contracts/index.html
 - http://www.energy.ca.gov/listservers/index.html

Attachments





- A. Scoring Criteria
- B. ARB Emissions Standards
- C. Examples of Previously Funded PIER Projects
- D. Proposal Cover Page Template
- E. Scope of Work Template
- F. Scope of Work Template Instructions
- G. Schedule of Products and Due Dates
- H. Budget Forms and Instructions
- I. Sample PIER Grant Terms and Conditions
 - Royalty Provisions (page 29 of Terms and Conditions)
- J. Prevailing Wage Compliance Questions and Answers
- K. Prevailing Wage Special Conditions
- L. Prevailing Wage Compliance Certificate
- M. California-Based Entity (CBE) Preference Points
- N. CBE Preference Points Questionnaire

Scoring Criteria





1.	Proposal's Problem Statement	10 points
2.	The Current Status of the Subject Technology	10 points
3.	Technical Description of the Proposed RD&D	30 points
4.	Cost and Technical Performance Goals	15 points
5.	Scope of Work	10 points
6.	California Ratepayer Benefits and Need for PIER Funding	15 points
7.	Qualifications of the Project Manager and Project Team	10 points
8.	Market Performance Goals and Commercialization Path	15 points
9.	Project Budget and Cost Effectiveness	30 points
10.	Other Significant Factors That Increase the Project's Merit	5 points

California Business Entity Preference





AB 2267 (Fuentes, 2008)

- Appendix M: Information
- Appendix N: Questionnaire
 - -Must request and demonstrate eligibility by filling out and submitting the questionnaire - Attachment N.
 - –Applicants who do NOT submit the Attachment N questionnaire shall NOT be eligible for the CBE Preference Points.





The CBE preference points will be awarded as follows:

Technical Score (prior to preference points being added)	Additional Points
105-113	1.5
114-122	3
123-131	4.5
132-140	6
141-150	7.5

Contact Information





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